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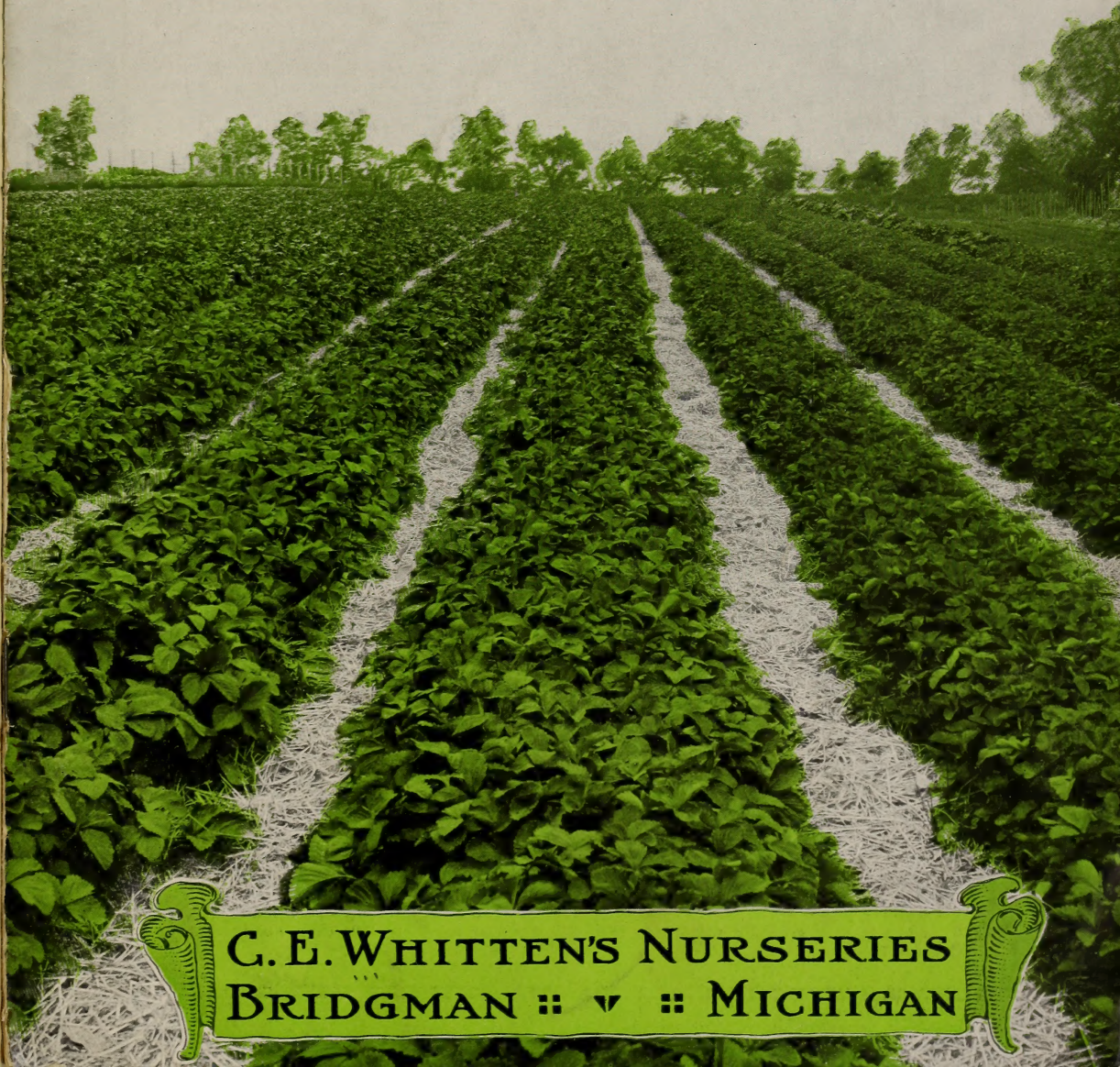
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*In Texas 1914*

# STRAWBERRY PLANTS & THAT GROW

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C. E. WHITTEN'S NURSERIES  
BRIDGMAN :: ▼ :: MICHIGAN



# PREMIUM OFFERS

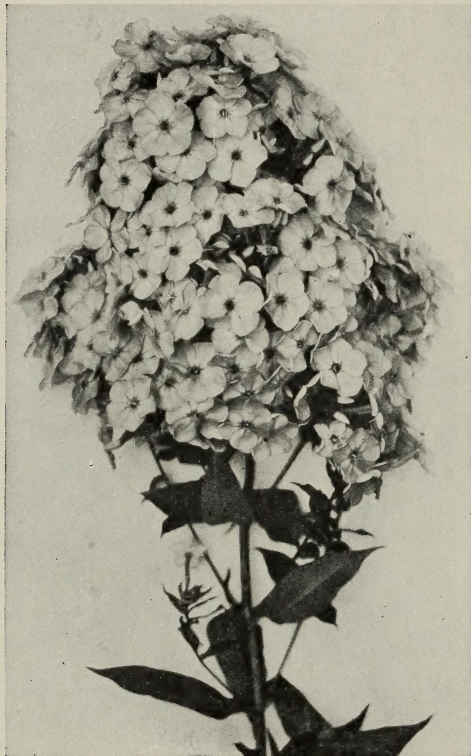
## Seedling Strawberry Plants

With every order for stock amounting to \$2.00 or more I will include twentyfive Seedling Strawberry Plants; or with an order amounting to \$5.00 or more I will include 100 Seedling Strawberry Plants.

(See inside Strawberry division for description.)

Or with an order amounting to \$2.00 or more I will include four plants of Perennial Phlox (see description below); or with an order for \$5.00 or more I will include twelve plants of Phlox.

With an order amounting to \$10.00 or more I will include free a year's subscription to **The Garden Magazine**, published monthly by Doubleday, Page & Company, of New York City. As its name indicates it is devoted to the interests of the garden, and is a very high class magazine. The price was formerly \$1.00 per year, but has recently been advanced to \$1.50. By agreement with the publishers I can offer one year's subscription in connection with an order for stock from my list amounting to \$1.00 or more, for the sum of \$1.00, thus saving you 50 cents.



With an order amounting to \$5.00 or more you may add 50 cents worth of stock, your choice.

Or with an order amounting to \$10.00 or more you may add 10 per cent in stock as a premium, except on special prices given on strawberry plants in 5,000 lots.

Please notice that if you wish to take advantage of either of these premium offers you must so state when sending your order.

Also note that in either of these offers the amount shall be figured at catalogue price, and not where a "Special Price" has been quoted.

Also only one Premium with each order.

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## PERENNIAL PHLOX

Last year I offered plants of this Ornamental as a premium with orders for other stock only, as we had a limited amount, but this season I have grown a very fine stock of plants and shall list them for sale as well as to offer as premiums.

Our plants are mixed seedlings grown from seed saved from twelve named varieties of Phlox running through all shades of red and including pure white.

To those of my friends who are unacquainted with this flower, I will say that it is one of the easiest plants to grow, and makes a splendid background or border for the lawn or home grounds, giving a profusion of bloom through mid-summer and continues until killed by frosts.

I can not furnish special colors, as these plants are mixed varieties and will consist as I have said above, of the different shades of red. While many will be a combination of two shades of color, some very light with a dark center, while others will be the reverse, dark with a lighter center, also some pure white.

These plants are one year old, strong and well rooted, many having bloomed late the past summer.

I am going to offer these as Premiums again. Four plants with an order amounting to \$2.00 or twelve with an order amounting to \$5.00. Regular sale price 10c each, six for 50c, or twelve for 75c.



# "Strawberry Plants that Grow"



## ANNOUNCEMENT



N again presenting this, our annual booklet, "Strawberry Plants That Grow" I want to thank my old friends and customers for their patronage and to solicit a continuance of the same, promising to do all we can to merit their approval. Also a word of introduction of myself and business will be in order for those who receive this booklet for the first time. To such, I would say that I commenced growing strawberries for market in our present location in 1883, and have for more than 20 years been growing and selling plants, issuing the Catalog and shipping to all parts of the country. I make no special claim for the superiority of our plants, neither any claim for **originality** of our method of growing. However we are very careful to have our stock for planting **True to Name** and take great pains to

keep it true. We also grow and care for our plants in the best possible manner and do claim that we produce as **Good Plants** as any one can without any exception.

We receive many letters each year from growers who say that they have tested our plants with others largely advertised as superior and have found ours fully the equal of the much lauded ones and many times ours have given the best satisfaction.

We have a reputation for **Honesty** and **Square Dealing** of which we are proud and certainly can not afford to do anything to impair this, were we so inclined.

However, we do not claim to be infallible, nor that we please everyone. We make mistakes some times, and there may be times when our customers feel that they have a grievance and if they will write at once I shall be glad to make such amends as are possible.

I do not like, however, to get word that plants were received in **fine condition** and then in two or three weeks receive word that these plants are **All Dead** and be asked to replace them. Now, no one can **Warrant Plants to Grow** under all conditions.

Perhaps severe drouth, floods or heavy freezing, either condition would be almost sure to injure the new set plants.

We warrant our plants to be packed to carry safely and to be in good growing condition when delivered to the transportation company, after which our reliability ceases.

The season of 1911 gave us very similar climatic conditions to those experienced in 1910. A very wet and backward spring followed by a severe summer drouth shortened our plant growth very materially. However, we have had a very late growing season, no killing frosts till November and a surplus of rain during fall months so that our plants are well rooted and we have a fair stock of most varieties.

We have said before, and wish to repeat it, do not condemn a variety from one season's experience, as another year may show it very differently, also different soil, or location sometimes changes a variety very materially. Then too, the season of ripening will vary according to locality, some that we class as late may ripen earlier, or those described as extra early be nearer mid-season. We can only give general conditions and do not mean to misrepresent. I have never urged my friends to set largely of untried "Novelties," but rather to test the newer sorts upon their own soil in a small way at first. I do not list any that I am not satisfied have merit. Each year we drop some from our list; not always because we think them poor, but because we have enough that are better and that succeed over a larger territory.

We have had complaint in the past that some of our varieties of strawberry plants (notably, Warfield, Crescent, Senator Dunlap, and others of that type) were "small" and "worthless." Of course, this complaint was not from experienced strawberry growers, for all such realize that there is a great difference in the manner of growth of varieties. Those like Bubach, Clyde, etc., which make very few runners will make much **larger** plants than those of Warfield type, which set so many and make **small** plants. These **small** plants, if thrifty, will grow and make a full row and bear as large a crop in the "matted" row, as the heavier growing plants. Generally the Warfield type has only one fruit stem to the plant, while Bubach and that type usually have



several "crowns" and a greater number of fruit stems to each individual plant. For the grower who is able to give high culture, on a very strong, rich soil, the latter class grown in hills or hedge row would perhaps prove most profitable. However, for the ordinary grower, the smaller type grown in half, or full matted rows, would prove as profitable, requiring much less work in their cultivation.

Our growing nursery stock has been inspected by the State Inspector of Nurseries and Orchards and by him declared apparently free from dangerous insects or diseases. A copy of his certificate will be attached to each shipment.

From the prevalence of San Jose Scale many states have enacted laws requiring the fumigation with hydrocyanic acid gas of nursery stock shipped into their borders; to comply with these laws we have erected a fumigating house, and are prepared to fumigate all stock shipped if so desired. Patrons living in states where this is required will please notify us when ordering. This law does not include strawberry plants, but raspberry and blackberry plants are included.

Our strawberry plants are all fresh dug at time of shipping, as we do not try to winter any in cellar.

I wish to emphasize this statement as in the past some have claimed that my plants have been held over winter in cellar. Let me say here, that I never did this, nor have I ever seen others that practiced such methods.

In propagating strawberry plants for sale we always set from one year old beds which have not fruited. We also set the different varieties in blocks of several rows each, thereby obviating the danger of mixture, liable where different sorts are set in alternate rows. In digging, we usually take up the entire row, discarding the original plants and such of the tip plants as are not well rooted, therefore we have no exhausted stock to send out.

In digging strawberry plants our help work in the field when the weather is fit, lifting the plants with "potato hooks," when taking the plants from the soil, stripping off the surplus leaves and runners and tying in neat bunches of twenty-five, (we always aim to put in twenty-six.) After tying, the bunch is carefully heeled in until the required number of that variety is dug, thus the roots are not exposed to the air for any length of time.

When the weather is unfit for the work to be comfortably done in the field, the plants are picked up in baskets and carried to the packing house or other shelter, where they are stripped and bunched as before described. But after the plants have been handled in this way, the rows never straighten out so nicely as when bunched at once upon being taken from the soil; thence, I think the plan of stripping and tying in the field preferable, notwithstanding others claim to the contrary.

Experienced strawberry growers know that a slightly wilted plant is much surer to grow than one that has been kept too moist and packed with too wet moss or other packing material. There is nothing that will cause strawberry plants to heat in shipping quicker than to have them too wet when packed.

By this I do not mean to infer that we purposely wilt our plants, or aim to pack them too dry, for we mean to have our moss just right; I don't want our customers to feel that the plants are permanently injured if slightly wilted.

Of course, sometimes our packages get broken in transit, through careless handling, and if found in such condition upon delivery, our patrons should refuse to accept and pay charges upon the same, notifying me at once, then we stand a chance of collecting damage from the transportation company, but if once accepted it is hard to collect damage. Also if plants have been delayed and have been an unreasonable length of time on the road, do not accept them, as they are quite liable to be injured, especially strawberry plants.

It will be a great help to me if my friends will speak a good word for my plants, if they have the opportunity, and it will be thoroughly appreciated.

If more than one catalog is received, please hand to some one whom you think will be interested in small fruits.

## Bouquets

Montpelier, O., May 1st, '11.

C. E. Whitten's Nurseries, Bridgman, Mich.

Dear Sir:—Your favor of the 21st ult. was duly received and plants arrived about a week ago all in good condition. I also received the gooseberry bushes and wish to thank you for your kind consideration. I am well pleased with stock received from you and will continue to be a customer; will also say a good word for your stock wherever I can.

Again thanking you, I am,

Very truly yours,

R. E. FULTON.

Carlton, Va., 4-19-'11.

C. E. Whitten, Bridgman, Mich.

Dear Sir:—My berry plants arrived today and I am very well pleased with them. I shall choose from these, two varieties that I think best for table use and let you have my order. Would you object to giving me your opinion of what you consider the very best table berry, for home use only? Thanking you for your kindness, I am,

Very truly yours,

P. P. NOTTINGHAM.

High Bluff, Manitoba, May 12, '11.

C. E. Whitten.

Dear Sir:—Your shipment of plants arrived a few days ago in fine growing condition. Everything satisfactory. Thanks for extras.

I am yours very truly,

RUFUS D. RITCHIE.

Tennessee, Idaho, 6-20-'11.

C. E. Whitten, Bridgman, Mich.

Dear Sir:—The 50 raspberries ordered of you are all growing and doing nicely.

Yours truly,

W. E. SMITH.

Bangor, May 1, '11.

Mr. C. E. Whitten.

Dear Sir:—The plants came all O. K., have them set out and do not think that there is one of them that will not grow. I thank you very much for them. My wife was very much pleased with the phlox plants. Do you find anything better or easier than elbow grease to get rid of chick weed with? Thanking you again, I am,

Respectfully,  
ALLEN E. WINNE.



# How to Set and Grow Strawberries



HAVE had numerous applications for instructions along this line, and while I have endeavored to give a partial description of my method of culture, I can hardly give any general rules that should apply to all localities.

## The Soil and Location

best adapted to strawberry culture will vary somewhat in different sections. In a general way we have said that any soil that would grow good crops of corn or potatoes would grow good strawberries, and while this seems to be a pretty safe rule, it is also true that in order to grow them to the best advantage it is necessary to have soil especially adapted. One of the first requisites of the ripening fruit is moisture, and care should be taken that this is provided. Hence a very dry or loose, sandy soil would not be a safe location, although in moist seasons a fair crop might be harvested. Neither is a stiff clay adapted to strawberry growth, as very early in season it cannot be worked without becoming cloddy, and later is apt to bake, and the plants will suffer more than on sandy soil. It would seem that a sandy loam or loam with slight mixture of clay should if properly handled give the best results.

**Drainage**—Having chosen a soil retentive of moisture, it next becomes necessary to prepare for proper drainage in case of excessive rainfall, unless the natural lay of the land is such that no water will stand upon the surface. Tile drains are the only practical ones to use. Open ditches will, perhaps, answer this purpose, but are unsatisfactory in many ways. They occupy too much land and are in the way of cultivation, while tile drains are much more convenient and fully as effective. In sandy soil I would advise using tile not smaller than four inches in diameter, and larger for mains, according to length and amount of water to carry. I have laid a good many three-inch tile and have had to take them up and replace with larger on account of their filling with sand. Of course this was where we had only moderate fall.

My idea is to hold the moisture in the soil at a depth of about two feet. Then in case of drouth we can by frequent cultivation bring moisture near the surface where most needed.

**Frost**—In planning your strawberry field care should be taken to avoid frosty locations, such as very low land near marshes or lakes, also valley where there is no chance for circulation of air, as these localities are very liable to heavy frosts, when higher land or that more open to circulation would show very little, if any. A hard frost at blossoming time often

ruins the entire crop, hence the desirability of choosing a situation as much exempt as possible.

**Manuring**—Where the soil is at all deficient in fertility, I would advise using well-rotted stable manure. If this can be applied to the soil the year previous and some cultivated or hoed crop grown, then the following season the land must be in the best possible condition for setting strawberries.

Some writers advocate the plowing under of a clover sod in preparation for this crop, but I am always doubtful of this method on account of the white grub, the larvae of the May beetle, which is quite apt to infest such soil. Perhaps if only recent Seedlings were so treated, this pest would not trouble, but I would warn all against plowing up an old sod to set strawberries, as the grubs would be almost sure to destroy the greater portion of the plants set. Never plow under green or very coarse and strawy stable manure just before setting strawberry plants, as it would cause the soil to dry out very quickly and will also burn the roots, killing the plants wherever it comes in contact with them. This is important and should be avoided if possible.

Any good commercial fertilizer may be used; one rich in nitrogen, rather than potash to be preferred. This should be sown broadcast on the land after plowing, and well harrowed into the soil.

**Fitting the Soil**—Having selected your site with reference to proper drainage and fertility of the soil, begin by plowing as late in the fall as possible before the ground freezes. This late plowing is beneficial in that the soil lays up loose and open, that frost may act upon it more readily, also leaving it in a condition to absorb more moisture in the spring, which may be drawn upon later in the season in case of drouth. It also tends to kill a great many insects which live over winter in the soil, some of which are quite troublesome and injurious to strawberry growth. The white grub is undoubtedly the worst of these, but as they seldom, if ever, lay their eggs in freshly cultivated soil, if my previous suggestions regarding the preparation of the site have been followed there will be no danger.

I like to plow quite deep where there is good depth of soil, eight inches at least, unless this brings the subsoil to the surface, which should not be done under any circumstances. As soon in the spring as the season has fairly opened, just as early as the soil will work up mellow, we harrow the land with a springtooth harrow (any other implement that will do the work thoroughly will do as well). There is not much likelihood of doing this part of the work too thoroughly, as it is much easier to



properly fit the land before setting the plants than afterward. We generally harrow with the furrows first then diagonally each way. I would then immediately follow with a heavy roller, or if you have no roller at hand, a plank drag (or "float," as we call it) heavily weighted will do as well. This firming of the soil is important as it is almost impossible to set plants properly if the soil is not reasonably level and firm at the surface.

**Marking Out**—This may be done in any manner that will give a very shallow, straight mark to set by. A light sled marker that will make three or four marks at once is very handy, and could be made by almost any one. The spacing of the rows will depend upon the method of growing chosen for your field.

**If For Hill Culture**, which consists of growing the single plants, cutting off all runners as fast as made, which causes the plants to "stool out" or grow additional "crowns" which will each produce fruit stems, the rows should be from two and one-half to three feet apart and sixteen to eighteen inches in the rows. If to be cultivated both ways, or in check row, then two, or two and one-half feet would be about right.

I would recommend this method to all those who wish to grow fancy berries and are willing to give the extra culture needed. This system requires a rich or fertile soil; it certainly would not pay on poor soil. Then, too, only certain varieties seem adapted to this treatment. Sorts like Bubach, Dornan and others of this class, while those like Warfield, Michel, Crescent or Excelsior and other heavy runners, would prove disappointing.

**The Hedge Row** is quite similar to hill culture. The rows should be from two and one-half to three feet, and twenty to thirty inches in the row; the freer runners the greater distance. The first runners are turned into the row and held in place with soil until they have struck root, generally about every six or eight inches in nearly a straight row, later all extra runners are kept cut off. There are different implements which are manufactured for this purpose, but I think a good sharp hoe in the hands of an active workman will be fully as satisfactory as the machines. Plants grown by either of these methods are claimed to remain healthy and fruitful for several seasons.

**The Half Matted Row** should be set about three and one-half feet apart and eighteen to twenty-four inches in the row. The runners are all kept off until about the middle of summer, then allowed to root until row is about one foot wide, after this all runners should be cut off. This should give a fine show for fruit.

**The Matted Row** is the system adopted by the greatest majority of fruit growers, although without doubt other methods would prove more profitable. The rows are set four to four and one-half feet apart, and plants from twenty to thirty inches in the row. The runners are all allowed to root, running the cultivator always in the same direction and narrowing it up as required. At times, if the season happens to be favorable to plant growth, and the soil is rich, almost the entire surface will be covered with plants. This method might be allowed on poor soil where fewer plants would be grown, or with varieties that make few plants ordinarily, but if Michel, Warfield or other heavy runners are allowed to grow in this manner, they will prove very disappointing from the fact that there will be many blank or barren plants. Varieties of this type would do better in half matted rows.

**Setting Out**—As to the manner of setting the plants, there are so many theories advanced which differ from mine, that I feel rather backward about giving my method. But as it is very simple and requires no special imple-

ment to work with, using instead a common spade for opening the holes, and not requiring any very complicated movements in placing the plants in the soil, I will give what I consider the easiest as well as the best method. I am well aware that some good authorities condemn the use of the spade for this purpose, but it is and has been used in this community—which is one of the greatest strawberry sections of the state—for the last thirty years or more, and I do not think any one can show a more evenly perfect stand than we have in this region. I can show blocks of a number of acres with scarcely a plant missing.

The first operation is the opening of the holes, which is done just ahead of the setting, not leaving them to dry out. In doing this the operator proceeds along the row, thrusting the spade in the center of the mark already laid out, spacing equal distances according to methods chosen, quite close if to be grown in hills, and farther if for matted row.

This should be nearly the depth of the spade, and if the soil is properly prepared, this will not require much effort, but if the soil should be very solid, it will require some pressure of the foot to sink it to the proper depth.

The spade should be given a slight motion to right and then to left; when withdrawn if the conditions are right, you will have a V-shaped opening which will readily receive the roots of the plant. Care should be taken not to weave the spade back and forth too much, as this tends to open too wide a space at the bottom of the hole, making it hard to close properly, and leaving a chance for air space, causing plants to dry out and die.

The greatest pains should be taken in getting the plants into the soil, and here is where you should place your most careful workmen; or better still, do this part yourself, if possible. Have the plants set in a shallow basket or other receptacle, with the roots moistened—if the roots are very long they should be cut back to about three inches. The plant should be held by the upper part of the crown, and placed in the spade opening at about the same depth it grew, which should bring the crown even with the surface; now let the operator press the soil firmly against the plant with a good, strong pressure of the foot, first on one side, and then on the other, being careful to see that the opening is entirely closed that air may not enter and dry out the roots.

**Cultivation**—As soon after setting as practicable, the surface soil should be stirred very shallow, being careful not to disturb the roots of the plants, also not to cover up the crowns or heart of the plant, the latter will cause the plants to die, especially in damp weather, by rotting or smothering the crown. This early cultivation is essential for several reasons: First, to be sure that all the openings near the plant are filled, also to preserve moisture if the weather is dry, by arresting evaporation through capillary attraction. This shallow cultivation should be kept up through the season, never allowing the surface to crust. There are a great many makes of cultivators which will do this work all right. Generally we use a one-horse steel frame with twelve or fourteen straight teeth. This simply pulverizes the surface, and one can work very close to the plants, but it is necessary to do some hand work with hoe in order to loosen all the surface and keep down weeds. The latter is very important, as one cannot successfully grow two crops on the ground at the same time.

Perhaps I should qualify this claim for shallow cultivation a bit by saying to treat the soil in this way only in dry seasons, or on very light and dry soil, as if the season is wet, or the soil low and heavy, it becomes necessary



to stir the soil deeper in order that it may dry out somewhat.

The blossoms should be pinched out of all spring-set plants, as it is not advisable to let them ripen fruit the first season, as it weakens the growth of the plants and is liable to kill them outright.

All runners should be cut off until the first of July, when if matted row is wanted, the runners may be allowed to root until the desired row is obtained, after which all runners should be kept trimmed off.

**Mulching or Winter Covering**—As soon as growth ceases in the fall, and before ground freezes hard, the surface of field should be well covered with some sort of mulching, either long straw, wild hay, corn stalks, or other litter, if free from foul weed seed, will answer the purpose. We have grown several acres of sowed corn on purpose for this covering, and find that it works quite well. We sowed quite early, about the middle of May, broadcasting about one and one-half bushels per acre, and allowing the crop to stand until thoroughly ripened before mowing with machine, leaving on the ground as it fell until just about time to use as covering, when it was

taken up with a horse rake and hauled onto the strawberry field. We find that this material "stays put" better than the wild hay, as we have had very high winds the past fall, and have had to replace the hay, and in some parts of the field this second handling was worse than the first, on account of its having been rolled and twisted into all manner of shapes. For this reason I would advise spreading hay or straw when slightly damp, if possible, and place a little soil upon the top at short intervals, which will help to keep it in place in case of high wind.

Some advise using coarse stable manure as a covering, and if free from grass seed this might be advisable, as it would both fertilize and protect the vines from frost. However, I generally "fight shy" of stable manure on plants that I wish to fruit the second season or for longer period, as I have sometimes seen a good stand of clover and timothy on what was supposed to have been a strawberry field.

As soon as growth commences in the spring this covering should be taken nearly or entirely off the plants, but may be left between the rows as a mulch to preserve moisture, also to keep the fruit clean at picking time.

### Number of Plants Required to Set One Acre

1x1 foot.....43,560	4x4 feet..... 2,722	6x4 feet.....1,815	7x7 feet..... 888
2x1 foot.....21,780	5x1 foot..... 8,712	6x5 feet.....1,452	8x3 feet.....1,815
2x2 feet.....10,890	5x2 feet..... 4,356	6x6 feet.....1,210	8x4 feet.....1,361
3x1 foot.....14,520	5x3 feet..... 2,904	7x1 foot.....6,222	8x5 feet.....1,089
3x2 feet..... 7,270	5x4 feet..... 2,178	7x2 feet.....3,111	8x6 feet..... 905
3x3 feet..... 4,840	5x5 feet..... 1,724	7x3 feet.....2,074	8x7 feet..... 777
4x1 foot.....10,890	6x1 foot..... 7,260	7x4 feet.....1,555	8x8 feet..... 680
4x2 feet..... 4,445	6x2 feet..... 3,630	7x5 feet.....1,244	
4x3 feet..... 3,630	6x3 feet..... 2,420	7x6 feet.....1,037	

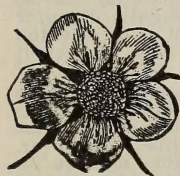
### Table of Express Rates from Bridgman, Mich., to Points Named Below

Amounts named are per 100 lbs.

Albany, N. Y.....	\$2.15	Beaver Falls, Pa. ....	1.80
New York City, N. Y. ....	1.90	Erie, Pa. ....	1.75
Rochester, N. Y. ....	2.00	Harrisburg, Pa. ....	1.75
Lockport, N. Y. ....	1.90	Pittsburg, Pa. ....	1.40
Buffalo, N. Y. ....	1.40	Washington, Pa. ....	1.40
Alton, Ill. ....	1.60	Baltimore, Md. ....	1.75
Anna, Ill. ....	1.80	Annapolis, Md. ....	1.75
Bloomington, Ill. ....	.85	Washington, D. C. ....	1.75
Centralia, Ill. ....	1.60	Exeter, Mo. ....	3.25
Decatur, Ill. ....	1.20	Jefferson City, Mo. ....	1.90
Farnia, Ill. ....	1.40	Joplin, Mo. ....	1.40
Pekin, Ill. ....	1.40	Kansas City, Mo. ....	1.90
Peoria, Ill. ....	1.00	Marysville, Mo. ....	1.90
Adrian, Mich. ....	.80	St. Louis, Mo. ....	1.50
Charlevoix, Mich. ....	1.40	Springfield, Mo. ....	2.50
Detroit, Mich. ....	1.00	Cedar Rapids, Ia. ....	1.50
Grand Rapids, Mich. ....	.60	Creston, Ia. ....	2.50
Lansing, Mich. ....	.80	Charles City, Ia. ....	2.10
Kalamazoo, Mich. ....	.50	Cedar Falls, Ia. ....	1.75
Jackson, Mich. ....	.80	Davenport, Ia. ....	1.40
Cleveland, Ohio ....	1.20	Des Moines, Ia. ....	1.75
Columbus, Ohio ....	1.20	Sioux City, Ia. ....	2.10
Cincinnati, Ohio ....	1.40	Appleton, Wis. ....	1.75
Frankfort, Ohio ....	1.40	Beloit, Wis. ....	1.00
Sandusky, Ohio ....	1.40	Milwaukee, Wis. ....	.80
Vannatta, Ohio ....	1.20	Sparta, Wis. ....	1.75
Springfield, Ohio ....	1.20	St. Paul, Minn. ....	1.90
Borden, Ind. ....	1.60	Lincoln, Neb. ....	2.50
Bluffton, Ind. ....	.80	Topeka, Kans. ....	2.50
Crawfordsville, Ind. ....	1.00	Denver, Colo. ....	3.90
Evansville, Ind. ....	1.50	Cripple Creek, Colo. ....	4.50
Indianapolis, Ind. ....	1.00	Wheeling, W. Va. ....	1.50
New Albany, Ind. ....	1.20	San Francisco, Cal. ....	8.15
Rockport, Ind. ....	2.00	Seattle, Wash. ....	8.15
Shelbyville, Ind. ....	1.40	Spokane, Wash. ....	8.15
Bourbon, Ind. ....	.80		



# Strawberries



**Perfect  
Blossom**

All Strawberry blossoms are either staminate—also called perfect—or pistillate, generally called imperfect.

The imperfect varieties which are all marked (Imp.) in catalog, should have a perfect variety, marked (Per.) set every third or fourth row to properly pollinize the blossoms of the imperfect sorts.

There seems to be a mistaken idea with some that this mixing of varieties is necessary with the perfect as well as the imperfect sorts; but this is not so. The perfect sorts are self-pollinizing and will bear as well if set by themselves.

When the imperfect sorts are properly pollinized they are considered by some as more prolific. However, this may be there surely is no reason for any prejudice against them.

Success depends in a great measure upon getting healthy stock, true to name. This is the kind we always aim to send out.

If by mail, add 10 cents per 25, 25 cents per 100 for postage. At thousand rates, by express or freight.



**Imperfect  
Blossom**

## Some New Varieties

**Chesapeake (Per.)**—This comparatively new variety I received from the introducer, W. F. Allen, of Maryland, whose description is as follows:

"This variety is as late as the Gandy, and more productive; furthermore, it will thrive and bear an elegant crop on soil entirely too light to produce good Gandy berries. It is equal to the Gandy in size, superior to it in

firmness and shipping qualities, and in eating qualities the Gandy is no comparison. In flavor it ranks with William Belt, Brunette and others of that class. Therefore, in the Chesapeake we have attained to a greater degree than in any other variety three of the strongest points that go to make up a valuable commercial berry—these are firmness, quality and lateness. When these good points are added to the fact that it is of uniformly large size, very attractive in appearance, and being one of the most healthy and vigorous growers, puts it nearer perfection than has yet been reached by any other berry, and I can conscientiously say that if it succeeds in other sections as it does here, it is the best strawberry in the world today.

I fruited over two acres the past season and the berries were mostly all shipped to Boston, with the exception of a few sample crates to New York. In every instance they brought the top market price, selling one week straight at seventeen cents, which was from two to three cents more than the best Gandy berries were bringing at the same time. Everyone who saw it, both growers and dealers in the fruit, were very enthusiastic. The plant is a strong, upright grower, with thick, leathery and very dark green foliage; leaves are almost round and entirely free from rust. The stems or fruit stalks are upright and unusually strong, holding almost the entire crop from the ground. This variety, in addition to its other good qualities, is unusually easy to pick, and therefore very attractive to pickers."

I fruited a small block the past season and was so well pleased with its behavior that I am very sorry that I did not set more in order that I might have a larger stock to offer my friends, and also have a goodly amount left for fruiting.

It certainly was as handsome as any strawberry I ever saw growing; the foliage was wonderfully strong, being the largest I ever saw on any variety without exception, very tough and leathery, and of the most brilliant green, while the berries were of almost perfect shape, being bluntly conical;



**Chesapeake**



its color is rather light red, but ripens evenly and is red all over, it also is a very firm berry, making an ideal shipping sort.

Another point in favor of this variety was the fact that absolutely every berry came to maturity, no buttons, or nubbins, the last berries being of perfect form and fair size.

Above description is taken from a previous catalog and I don't think I can describe it much better if I should try.

For two seasons we have had to dig up every plant we had and then could not fill all the orders we received for Chesapeake. From a plant grower's standpoint it is not a profitable sort to grow as it is not a prolific plant maker, but makes a few very strong and stocky plants. However, it is a fine late variety for either home use or market.

Twenty-five, 25c; hundred, 75c; thousand, \$5.00.

**Gibson (Per.)**—This is not the old variety of that name which originated in Eastern New York several years ago, but it is a local berry of great promise and more nearly resembles the Pocomoke than any of the older sorts which I am acquainted with.

It commences to ripen with the second earlies and continues for a long season making a heavy yield of fine fruit.

The fruit stems are large and strong, and the dark green foliage is an ample protection for the blossoms and fruit; having a strong staminate bloom it makes a very good pollinizer for pistillate varieties.

The berry is large and regular in shape, holding its size well to the end of the season; its color is a deep rich red all through from surface to center; its flavor is fine being neither too sweet nor too sour, but **just right** for table or canning.

In manner of plant growth it very closely resembles Pocomoke, making a heavy row of very strong and healthy plants, its foliage being of a very dark and glossy green, not a speck of rust to be seen on our rows this season.

It is very hardy in bud and bloom, withstanding spring frosts that very nearly wiped out such varieties as Bederwood and Warfield on adjoining rows.

This sort was first catalogued in 1911 and I saw some large fields of it fruiting the past season and I must say that for an all round good berry, yield and quality considered this was the "limit," surpassing our Pocomoke both in yield and appearance.

I can not give the parentage of the Gibson, neither can I give its exact origin, but it seems to have originated in our county, (Berrien), having been grown by a colony of German farmers who kept it to themselves for several seasons making big money out of it. Finally it became known and other growers have been able to fruit it until at the present time it has become very popular with our market growers.

I want to urge all my friends to test this sort on your own ground and I feel sure you will not miss it if you plant largely of it for market.

Twenty-five, 20c; hundred, 60c; thousand, \$4.

**Highland (Imp.)**—"Introduced for the first time last year the Highland comes before the public with stronger endorsements than most new introductions. For four years it has been fairly tested on the grounds of the Ohio Experiment Station, and found the most prolific of any variety tested." The following is quoted from the Ohio Station Bulletins: "Highland was the most prolific variety in our col-



**Highland.**

lection. It is very promising and desirable, especially for the grower who is situated near a good home market. Fruit medium to large, bluntly conical; color bright scarlet; flesh red clear through. Plants very large, strong and vigorous. Flowers imperfect and quite resistant to cold. Highland gives bright promise of being a great business berry and a money maker for even the small planter."

I have a fair stock of Highland for coming season that I can warrant **genuine**.

Twenty-five, 25c; hundred, 75c; thousand, \$5.00.

**The Heritage (Per.)**—This is a new seedling strawberry, originated by Mr. J. E. Heritage, Marlton, N. J., and this is his description of it: "The plant is very large; of extremely heavy texture, some single crown plants carrying foliage with a spread of 20 or 22 inches. Deep rooted and extremely free in fruiting, beginning to ripen its fruit about early mid-season, and continuing to very late. Another prominent feature is that the fruit stems continue to shoot so late that during the early picking season there are many blossoms, which feature indicates to the experienced grower their long season of productiveness. The berry is dark, shiny crimson to the center. Has a perfect blossom. Carries an unusually heavy green calyx (adding decidedly to its market value.) Extremely large from the first picking to much above the average for the main crop, and continues large after the better known varieties are gone."

I set a block of this variety last spring, getting my stock from the East, and while I have



not seen it in fruit, only as the spring set plants were allowed to set a few stems of berries I am thoroughly well pleased with its

have not given it a fair test for fruit, I can say that it is a very free grower, and makes strong and stocky plants.

I will give the introducer's description:

"This splendid berry originated in our garden at Towson, Baltimore County, Maryland, in the spring of 1905. It is a seedling of the well-known William Belt. Its claims to public favor are as follows: First, great vigor of plant growth. Second, large size and delicious flavor. Third, length of bearing season. Fourth, wonderful productiveness. Fifth, splendid root system. Sixth, beauty and symmetry of form. The plant is strong and vigorous, clean and healthy; growing at least two inches higher than any other variety we have in our gardens. Its foliage is a beautiful light green, easily distinguished from any other variety, and as yet has not shown the slightest blemish in any respect. The berries are as large, if not larger, than any other variety grown, and unlike most large varieties in that they are of delicious flavor. In length of season it is certainly remarkable.

In 1907 we picked berries from it on the 25th of May and the

last on the 10th of July. With the same care and under like conditions, it produced twice as many berries as the Senator Dunlap, Corsican, Glen Mary, William Belt, Marshall, and three times as many as the Gandy. In 1906 it yielded at the rate of sixteen thousand eight hundred quarts per acre. It throws out a great many runners, which root splendidly in a very short time; in fact, the roots of this variety excel anything we have ever seen in the strawberry line."

Twenty-five, 20c; hundred, 60c; thousand, \$4.00.

**Norwood (Per.)**—This is a new variety introduced the season of 1908, by L. J. Farmer, of New York. I will give the originator's description as given in Mr. Farmer's catalog:

"The Norwood strawberry was named and given the first prize by the Massachusetts Horticultural Society at the exhibition of 1906. This strawberry is supposed to be a cross between the Marshall and Corsican, as it came up where the Marshall had been grown and near where Corsican was grown at the same time.

"The Norwood is believed to be the best all-around strawberry in existence. The plant is strong and healthy, making a liberal number of strong runners, but not excessive. The berry is conic and regular in shape; not a cockscombed berry was found this season. The quality is unsurpassed, and the size unequalled, some attaining the enormous size of three inches in diameter. Four such strawberries would fill a box and be crowded. Color, bright red all the way through, growing darker with age, is firm, a good keeper and will ship well. Has a perfect blossom, and holds its size well through the season and remains in bearing a long time. Picked the first box June 18th, and the last one July 18th. The largest berries were found in matted rows or beds, although the plants had received no extra culture."

Twenty-five, 50c; hundred, \$1.25, thousand, \$10.00.

**Son's Prolific (Per.)**—This is a new variety from Missouri and was first offered to the pub-



Fendall

manner of growth and general appearance. I would candidly urge all to give this new sort a careful test, feeling quite sure that it will become a standard sort when better known.

Above is description given in last year's catalogue.

I fruited this variety the past season and found that it very nearly fulfilled the Originator's claims, being very prolific of large deep red berries of fair quality.

About the only fault I would find is that the fruit is a little rough, not making the handsome appearance that so large a berry should. Still I think it worthy of continued trial and would advise all wanting a very large late berry to test the Heritage for themselves and feel quite sure that you will not be disappointed.

Twenty-five, 20c; hundred, 60c; thousand, \$4.00.

**Fendall (Imp.)**—This new variety has been unfortunate in its introduction, as several growers listed it as a staminate sort when in reality it was a pistillate. Not having learned of this when I set my first plants, I made no provision for pollination, hence my test row was an entire failure this season.

I have a fine block of plants for coming season grown on newly cleared land. While I



lic in the spring of 1910 by a firm in that state at \$3.00 per dozen.

I set a few plants of this variety last spring but have never seen it in fruit so can only give the originator's description of it. He says, "It is very similar to Aroma both in fruit and plant growth, but outyields that variety by a big majority. Has been tested for 7 to 8 years under all sorts of conditions and has never failed to make good."

This was sent to me under the offer of "my money back" if, after fruiting, I was not pleased with it. Personally I can not say much for or against it at this time as we were un-

fortunate in receiving our plants last spring too early for our latitude and they were kept in the cellar a little too long, consequently did not make a good stand and owing to the protracted summer drouth we have only an ordinary showing of plants. However, this sort seems to have a healthy and clean foliage and a reasonably strong growth, but does not make a surplus of runners, this being a point in its favor rather than otherwise.

I would offer this to those wanting a late variety suggesting that you test it in a small way for yourselves.

Twenty-five, 25c; hundred, 75c; thousand, \$5.

## Extra Early Sorts

Under this head I am offering three varieties that I think are the best of their season; although perhaps not as rich in quality as some of the later sorts, still their extreme earliness of ripening will make them an acceptable addition to any collection.

**Luther** (Per.)—Or, August Luther, as some prefer to call it, was originated by Mr. A. Luther, of Missouri, and grown by him several seasons before it was offered for sale. The Ohio Experiment Station was first to call attention to it, giving the following report in 1897: "From A. Luther, perfect, un-named seedling, plants vigorous and prolific, berries medium to large, conical, usually with long slender point, light scarlet, flesh light red of good quality, valuable for its earliness. Is far more prolific than Michel's Early and far larger. Earlier, larger and more prolific than Rio. It is regarded as the best early variety tested at the United States Agricultural Station."

I shall still place this variety at the head of the list of extra earlies, as I have found nothing yet that I consider better. It has a very pleasing appearance, being of a very bright red color and almost always of perfect shape, a slender rather sharp pointed berry. It ripens evenly, no "green tips," and will ripen its full crop in a very short space of time, this feature making it a good market sort. It is also a very thrifty grower, making a full row of medium sized plants.

This season we have a good stock of well rooted plants, and I shall recommend it to all wanting a very early berry.

Twenty-five, 15c; hundred, 50c; thousand, \$3.00.

**Excelsior** (Per.)—An extra early berry. Has given us a good crop of berries. Berry is dark red, of good size, one of the best shippers. It is a good plant maker. Plant healthy, blossom perfect. It is claimed to be a seedling of the Wilson crossed with Hoffman. Originated in Arkansas.

Some growers claim this is the best early market variety, and where dark colored, tart

berries are wanted, this sort will surely please.

In direct contrast to the Luther, this variety is a long-season variety and while it ripens its first berries at about the same season as Luther, it continues much longer in bearing.

Twenty-five, 15c; hundred, 50c; thousand, \$3.00.

**Red Bird** (Imp.)—This is a new variety that I received from W. F. Allen, of Maryland.

As I have had so little experience with it I will give Mr. Allen's description as given in his catalog:

"This is a valuable new early berry, which first attracted my attention in Mississippi. It was highly recommended to me, and I was induced to set a few plants, and was satisfied from the first that they made a very rank growth of as healthy and vigorous plants as I ever saw. I paid no special attention to it until it came in fruit the past season. It ripened with the Excelsior. By this I do not mean a day or two later, but I mean equally as early. It is twice as productive and when I say this I mean it will bear two quarts where the Excelsior will bear one. It is highly colored, not quite so dark as the Excelsior, and makes a better showing. The berries average larger and hold up better. I consider it away ahead of that good old standard market sort.

"The berry is very tart, and would not be considered very good eating without plenty of sugar, but as a first early shipping berry, so far as I know of, it has no equal. This is not a long description, but it gives you the facts as I have seen it, and as the berries have done for me."

We have a good stock of these for the coming season, and the plants are strong and stocky, showing a tendency to stool or throw out extra crowns or fruit stalks; this feature being exceptional for the extra earlies, as generally this class are not very heavy croppers, usually sending out only one fruit stalk.

Twenty-five, 15c; hundred, 50c; thousand, \$3.00.

## Seedling Strawberries

Last season I offered plants of a **Seedling Strawberry** that I had been testing for several years. These seedlings were found where I had plowed under at fruiting time, a block of Haverland, pollenized with Lovett. Several of these seemed to show the Haverland type quite strongly; one especially which I designate as No. 2, (being the one sent out last year as a Premium), was very similar and might be called a perfect flowered Haverland.

At fruiting time the past season this was quite disappointing to me, not doing as well as usual, while the No. 1 seemed much superior and I shall try to increase my stock of the latter to offer another year.

However, at the present time I have only the No. 2 to offer and will include 25 plants with a \$2.00 order for other stock, from my catalog; 100 with an order amounting to \$5.00 or more, if mentioned when you send in the order.

See inside front cover for other Premium offers and conditions.

I should appreciate it very much if my friends will report to me the behavior of these seedlings as they fruit for them.





## Second Early Varieties

**Senator Dunlap** (Per.)—This is comparatively a new variety, introduced by M. Crawford a few years ago, and is certainly a great ac-



Senator Dunlap.

quisition to the list of standard sorts.

I think this might well be called a perfect flowered Warfield, as their habit of growth is almost identical and the fruit is quite similar in appearance. It is a very free runner, which becomes a fault on moist, rich soil, unless the plants are kept thinned out. The introducer says, "We have the greatest confidence in this variety and believe that it will in the near future take its place among the more prominent standard kinds. The plant is almost perfect in its way. We have several times called attention to its toughness and ability to endure hardships. It is small, slim, very deep-rooted, and as great a runner as the Warfield. With us it has always proven very productive. The fruit is generally large, never of the largest size, however; is conical in form, regular, never misshapen, bright or slightly dark red, very glossy, firm, a splendid keeper and shipper, most excellent in quality, and one of the best canning berries we have ever known. Its season is second early and it bears a long time."

The above was my first description of this sort, and the lapse of time has proven the predictions true, as Senator Dunlap has become the most popular of any variety of strawberry grown; not only in this section, but nearly all fruit growers who have tested it say the same, and a great many say that if they were to be limited to one variety, it should be the Senator Dunlap. In fact many large growers are setting their entire acreage to this sort. All plant growers agree in saying that they sell more of this variety each year than of any other.

I have always recommended Senator Dunlap, for either market or home use, and I wish I were able to describe its merits more fully; however, no one can make a mistake in test-

ing it, as it is one of the best, making an excellent pollenizer for second early sorts, or doing equally well planted alone.

While the season of ripening is given as second early, it in reality could be classed as a mid-season variety, as it has a very long fruiting season.

Twenty-five, 15c; hundred, 50c; thousand, \$2.50.

**Warfield** (Imp.)—This variety is still very popular as a market sort, although the Senator Dunlap has practically usurped its position at the head of the list, which it held before the advent of that very popular sort. The two together make a good team, and are quite similar in appearance when in the crate. However, Warfield is a richer berry and a little deeper red in color thus making it one of the very best for canning; it also holds its color in the can which is a very important point in its favor. In plant growth this variety is quite similar to Senator Dunlap, except it does not root so deep on light sandy

or gravelly soils, and is more liable to suffer from drouth. While the individual plants are quite small and usually have only one fruit stem, it is remarkable the number of quarts produced by a lightly matted row on good strong soil.

Twenty-five, 15c; hundred, 50c; thousand, \$2.50.

**Splendid** (Per.)—Originated at Sterling, Illinois. Plant a vigorous grower, equal to Warfield in this respect. Blossoms perfect. Berries are borne on tall fruit stalks, and are large, firm, and of fine color. Ripens evenly all over, globular, very productive. Few, if any blanks. No mistake can be made in using this variety to pollinize Warfield, Crescent and other pistillates. Early to mid-season.

We have a good block of these for coming season, and I would recommend it as a first class variety for market where quantity is more of an object than quality.

Twenty-five, 15c; hundred, 50c; thousand, \$3.00.

**Beder Wood** (Per.)—This is generally conceded to be one of the very best early varieties for home use or market. It is a splendid grower, making a large number of strong runners. It has a perfect blossom, and is immensely productive. Fruit of good size, light red, medium firmness and good quality. One of the best to plant with early blooming pistillate varieties.

I feel that we have not said enough in favor of this variety and that it has been neglected in our desire for something new. It certainly is a much better market berry than a lot of the newer sorts that are given lengthy descriptions and loudly praised. Its worst feature is its color, which is a little too light. I would recommend it as a reliable sort for market purposes.

While this sort could hardly be classed as a firm or hard berry, it has a peculiarly dry or spongy nature which enables shipping it long distances without injury. It is an excellent plant-maker, setting freely and rooting deep; thus being able to withstand drouth better than those sorts not rooting so deeply. If we are to have a cycle of dry seasons, as some predict, this feature is worth consideration. I



should like to emphasize what I have said in its favor and again recommend it as a paying market sort.

Twenty-five, 15c; hundred, 50c; thousand, \$2.50.

**Haverland (Imp.)**—This is one of the best early market sorts, and seems to do well in all sections. It makes a thrifty plant growth. Berries are large and of a peculiar longish shape, though very regular and even, holding out well to the end of the season. The color is rather light red, which may be considered a fault by some, but they make such a handsome appearance in box or basket that they nearly all sell for top price in market. About the only weak point I have discovered in the Haverland is that the fruit stems are tall and unable to stand up under the weight of fruit as it ripens, consequently they should be mulched with straw to keep them from the dirt. This peculiarity of growth makes fine picking, as the berries lay out in sight requiring no movement of the vines to find them. Another good point in their favor is the ability to withstand frost at blooming time often bearing a full crop of perfect fruit when other sorts are badly damaged. There is such a demand for plants of this variety that the supply nearly always fails.

There have been a great many spurious or mixed plants sent out from this section as Haverland; we warrant ours true to name. If you are unacquainted with this sort, try a few and see what a fine market berry they are. A little too soft for distant shipment, but they will stand picking before fully ripened and will color up in the crate, after picking. If handled in this manner, Haverland will stand shipment as well as any of the larger varieties.

Twenty-five, 20c; hundred, 60c; thousand, \$4.00.

**Lovett (Per.)**—No person need hesitate to plant this variety for either home use or market, as it succeeds generally in any soil or

locality. It is one of the tough, hardy varieties that will never disappoint the grower. It has a perfect blossom and bears heavily. The fruit is from medium to large size, conical, firm and of good color and quality. One of the best to use as a pollinizer for pistillate sorts.

This is another of the good old sorts which has been neglected for some of the newer ones not nearly so good. J. T. Lovett, of N. J., when he introduced this sort called it "Lovett's Early," and while it commenced ripening a few of its berries quite early, it continued in bearing a long time, this feature discouraging those who had set it thinking it was an early berry. Thus it lost popularity, and I think it has never regained the position it should have held only for the mistake of its introducer. Lovett is a good grower of strong and healthy plants, the fruit somewhat resembling the old Wilson. My block of this variety is looking fine—fully the equal of any sort I have. I would advise a trial of it for either home use or market.

Twenty-five, 15c; hundred, 50c; thousand, \$3.00.

**Klondike (Per.)**—This is another southern berry, and how noticeable it is that very nearly all of our early sorts are of southern origin. This variety is claimed to be an improvement over the Lady Thompson, being much darker in color, both of foliage and fruit, and is a very solid berry, and dark red to the center.

Without doubt, there are more acres of this variety grown for market than of any other sort, and it well deserves its popularity. It is a very strong grower making a full row of well developed plants, and is wonderfully productive.

I have only a limited stock to offer this season.

Twenty-five, 20c; hundred, 60c; thousand, \$3.00.

## Mid-Season to Late Varieties

**Bubach (Imp.)**—Fruit large and handsome, roundish, conical, bright scarlet, moderately firm, of fair quality. Plant a strong grower, with a large healthy foliage and very productive. Succeeds on light or heavy soil. Desirable for home use or near market. One of the best. Season early to medium. This is an old standby, and is deservedly popular. In plant growth it is vigorous, but does not throw out excess of runners, hence it is best grown in hedge or half-matted row.

This variety is perhaps as well known and as widely disseminated as any grown, and while it is perhaps not as popular as it was several years ago, still we always run out of stock long before the close of the season. While it is hardly firm enough for long distance shipping still it will hold up for ordinary marketing, and is one of the largest berries grown.

Twenty-five, 20c; hundred, 60c; thousand, \$4.00.

**Pocomoke (Per.)**—The originator says: "Originated near Pocomoke River; was found growing where there had been some Wilson and Sharpless strawberries dumped, and is supposed to be a seedling of the old Wilson, crossed by the Sharpless. The berry is round, conical, and resembles the old Wilson, but is much larger. One of the best varieties in existence, not only for its enormous productiveness, but on account of its beauty, adaptability to all soils, its foliage enduring the dry, hot weather (which quality is rare), its large size, its deep red color, its firmness, its high flavor. The plant is a strong, robust grower, with deep roots and lots of them, perfect blossoms and

is an enormous yielder of large red berries. It ripens evenly and is one of the best shippers yet produced."

The above was taken from description given in previous issue of this catalog and I only wish to emphasize what I have formerly said in favor of Pocomoke. I can see little or no difference between this variety and Parsons Beauty, in fact most growers call them identical, consequently I have dropped the Parsons from my list. Pocomoke is not a new or untried sort, but has been fruited in this section for several years, and is considered one of the very best.

I have a fine lot of plants of this sort for next spring, and hope to be able to fill all orders and would urge all to give it a trial.

Twenty-five, 20c; hundred, 60c; thousand, \$4.00.

**Wm. Belt (Per.)**—From M. Crawford's catalog: "Introduced by us about eleven years ago. We might describe it by saying that it has every good characteristic save one—it is rather subject to rust. Although its single failing is well known it is extensively planted by a large number for its many excellencies. We have seen it produce berries over nine inches in circumference in sixty days from the time it was transplanted. The plant is large and sends out plenty of strong runners. It is very productive."

Also from a later catalog of theirs I clip the following:

"A native of southern Ohio, and named for its originator, now deceased. For fourteen years this has been before the public, and al-



most from the first it took rank as the best of all in flavor. It is also superior in beauty, size, and productiveness. The color is bright red. The first berry to ripen on each stem is



Glen Mary.

cockscorned, but the others are conical. The plant is grand, and the foliage abundant and healthy. There was a time when it was subject to rust in some localities, but we have heard nothing of it lately."

With us this has proven a valuable variety, giving heavy crops of fine fruit.

Twenty-five, 20c; hundred, 60c; thousand, \$3.50.

**Marshall (Per.)**—The following is what the originator says: "Three thousand baskets of berries picked on one-third of an acre last year. The berries are very large size, fourteen filled a basket. Color, very dark crimson throughout; fine flavor and fine grain, and good keeper, which commends it for garden or market purposes; blossoms perfect."

The plant is a vigorous healthy grower; berries dark crimson when ripe.

I also clip the following from another catalog: "Plant is large and strong; very prolific; 110 berries have been counted on a single plant. The fruit is handsome and attractive; very large, 14 berries having been known to fill a quart box. Of perfect form; dark crimson when fully ripe, but colors all over a light crimson before ripe, and is thus valuable for market. Quality and flavor excellent. It will produce fruit for 25 days' picking."

Readers of the Rural New Yorker, will recognize this as the variety grown at "Hope Farm" and by Editor Collingwood considered the best. In quality it is really the standard of excellence and if given a good soil and proper treatment will make a heavy yield of very large and handsome fruit.

It needs plenty of manure and thorough culture in order to do its best, as it does not thrive under neglect. We have only a limited number of plants to offer this season and suggest that you place your order early if you desire to get this "best of all" strawberry.

Twenty-five, 25c; hundred, 75c; thousand, \$5.00.

**Glen Mary (Per.)**—This variety was originated in Chester Co., Pa., and introduced in 1896 by W. F. Allen, of Maryland, whose description I give below.

"I introduced this variety twelve years ago at \$10.00 per 100. Throughout New England and the West it is the leading berry of the list today. We sell more plants of it year in and year out, than any variety that we grow. I do not recommend it for this peninsula, or for the South, but for New England, West and Northwest. I doubt if there is any variety that will equal it in every respect. It is only semi-staminate, but as its blossoms carry enough pollen to fruit its own berries, it is listed as a staminate variety, but I would not recommend it to plant with pistillate varieties as a pollinizer. They are big, dark red beauties with prominent seeds of bright yellow; the meat is rich and juicy and crimson in color. They are of such high flavor that when once eaten more are wanted. As a good, firm shipper, it is very popular for fancy local market, there are few, if any, better. For this reason they are popular with both the large and small growers. It has no particular choice of soils, and does not require petting. The roots are long and well-developed, providing plenty of moisture during a drouth. The foliage is large, upright in growth, dark green in color, leaves nearly round with dark glossy surface, making a beautiful appearance in the field. The fruit stems although large and strong, are weighted to the ground by the large clusters of berries; for this reason they should be well mulched to keep them clean. The berries are just the right size to make a fine appearance in the crate, and you do not have to be timid about asking a big price for them, as everyone will pay extra to get extra fine berries."

A few years ago I sold myself short of this variety, and bought plants of a neighbor for my spring setting, he claimed that his stock was pure, but I discovered later that I had something more nearly resembling Brandywine than any variety that I am acquainted with, and upon inquiry I found that a good many of our growers had this spurious sort instead of Glen Mary. When I decided this for a certainty, I dropped the variety from my list, and sent to Mr. Allen for a new start of the genuine article, and this season I have a nice stock of plants that I can warrant true to name, and would recommend it as a profitable market sort.

Twenty-five, 20c; hundred, 60c; thousand, \$3.75.

Hanover, Ill., May 1, 1911.

Mr. C. E. Whitten.

Dear Sir:—The strawberry plants arrived safely and in fine shape the 27th of April. They were set out the same day of their arrival, and now after a few days, every plant is alive and doing well.

I certainly shall recommend your plants to all my friends, and thank you very much for the extra number of plants you sent me.

Yours respectfully,

GEORGE RING.



## Late to Very Late Varieties

**Aroma** (Per.)—While fruit is quite similar to Gandy, the growth is very different, making fewer plants and stronger ones. The berries are large to very large, and hold up well to end of season.

"It has been claimed to produce twice as much fruit as Gandy, but I would hardly think it probable, where both are grown under the same conditions. The quality of fruit is good, the color of berry is against it where dark colored fruit is the standard of excellence, as it is more like Gandy, inclined to be light. I can personally recommend this sort to anyone wanting a late market berry."

If large bright colored berries, late in season are an object to you, then try Aroma, and you will be pleased.

Twenty-five, 20c; hundred, 60c; thousand, \$3.75.

**Brandywine** (Per.)—This has proved so satisfactory with all who have grown it that it is consequently in large demand. It is comparatively new and of great value by reason of its productiveness, large size, beauty and good quality, which renders it especially desirable for the home garden. The berries are glossy crimson, very handsome, firm and solid, excellent in quality, with fine aromatic flavor. The berries color all over evenly and retain a good size to the last, ripening in succession, and every berry maturing fully. Plant is remarkably vigorous, hardy and exceedingly productive, and its foliage is large, clean and healthy. The amateur will delight in such a superb variety, which with his good soil and careful culture will give him magnificent returns. Midseason to late. It is also an excellent pollinizer for midseason to late pistillates.

Twenty-five, 20c; hundred, 60c; thousand, \$3.50.

**Sample** (Imp.)—I still consider this one of the best late sorts that we have on the list today, and it seems to continue very popular wherever it has been grown.

The introducer says: "Large size and fine quality; quite firm; continues a long time in fruit. The berries are large to the last. For the market-man it is the best strawberry ever grown. I have nothing in my grounds that will begin to fruit like it. It will yield as many berries as the Haverland, and will average as large as the Bubach. Colors all over at once. A berry that will do that is the best one yet found. There is not a weak spot in it. Foliage perfect, fruit perfect."

I feel perfectly safe in recommending this sort to my friends for either home use or market, where a late berry is desired. While we have a fair stock of plants I would advise ordering early as we always run short of Sample long before the close of the season.

Twenty-five, 20c; hundred, 60c; thousand, \$4.00.

**Uncle Sam** (Per.)—This new seedling berry originated in Ohio and is a promising sort. The introducer's description is as follows: "Large to very large, will average larger than Bubach; ripens with the Bubach, but has a much longer season, a perfect bloom, and is much more prolific. Have picked Uncle Sam berries as early as May 22, and on July 5, of the same year, picked berries one and one-half inches in diameter. There are no green ends, buttons or nubbins on first year's fruiting. Color red, quality delicious, foliage strong and vigorous; berries of Uncle Sam can be picked two weeks after most other berries are gone."

This variety has never been "boomed" as a great many others have, consequently is not very widely disseminated. I have fruited it in

a small way for a number of years, and have found it a very satisfactory sort, always making a good row of strong and healthy plants, and giving a heavy yield of very handsome fruit late in the season. It is a strong staminate, and is a good pollinizer for late pistillate sorts.

Twenty-five, 20c; hundred, 60c; thousand, \$3.50.

**Stevens' Late Champion** (Per.)—This new late variety originated in New Jersey; seems to do well wherever tested. The originator describes it as follows:

"Very large, fine flavored, bright color, good shipper, a fine bed maker, a heavy yielder, fine foliage."

"Its name, 'Champion,' was given it by a lot of berry growers, some saying it would challenge the world."

"It ripens later than the Gandy Prize, and lasts until the Fourth of July any season. It has never shown any sign of rust. The cap, which is double, has always kept green until the last of the season."

I have grown this variety in a limited way for several seasons, and think it fills the originator's claims in a large degree. It certainly is a very strong and healthy grower, and a prolific bearer. I should not class it as the best quality, but for a late market sort it is ahead of Gandy as we grow them here.

Twenty-five, 20c; hundred, 60c; thousand, \$3.50.

**Gandy** (Per.)—Has always been popular as a late market variety; does not do well on light sandy soil, and is apt to be disappointing when planted in such location. I have no hesitation in recommending this to all as one of the best late sorts for home use or market. The only fault that I ever heard found with it was its "shy bearing" when planted on uncongenial soil.

While there are many plants shipped from this point each season as Gandy, which are not true to name, I will warrant my stock to be the genuine Gandy.

Owing to the very unfavorable growing season, also to the fact that our block of Gandy was the last one to be set, quite late in the spring, we have a very poor stand and shall only offer by the hundred.

Twenty-five, 25c; hundred, 75c.

**Blaine** (Per.)—This is a new variety from Iowa and with me has much the appearance of Gandy, both in plant growth and in berry.

The originator says: "It is a cross of the Bederwood and Lovett. It is a perfect blossom berry, has large, stalky plants, very healthy foliage, light green color and broad leaves. Makes plenty of runners for a good crop. The berry is very large, firm and of the best color and flavor. It is the best shipper I have ever raised, and I have tested over 100 varieties. Ripens just after the Aroma. When the Aroma is gone I begin on the Blaine. I have the Aroma downed on three points—size, flavor and shipping qualities."

It certainly is a very late sort, and I think that under favorable conditions will prove a paying market sort.

Twenty-five, 20c; hundred, 60c; thousand, \$3.50.

Prosser, Wash., May 3, 1911.

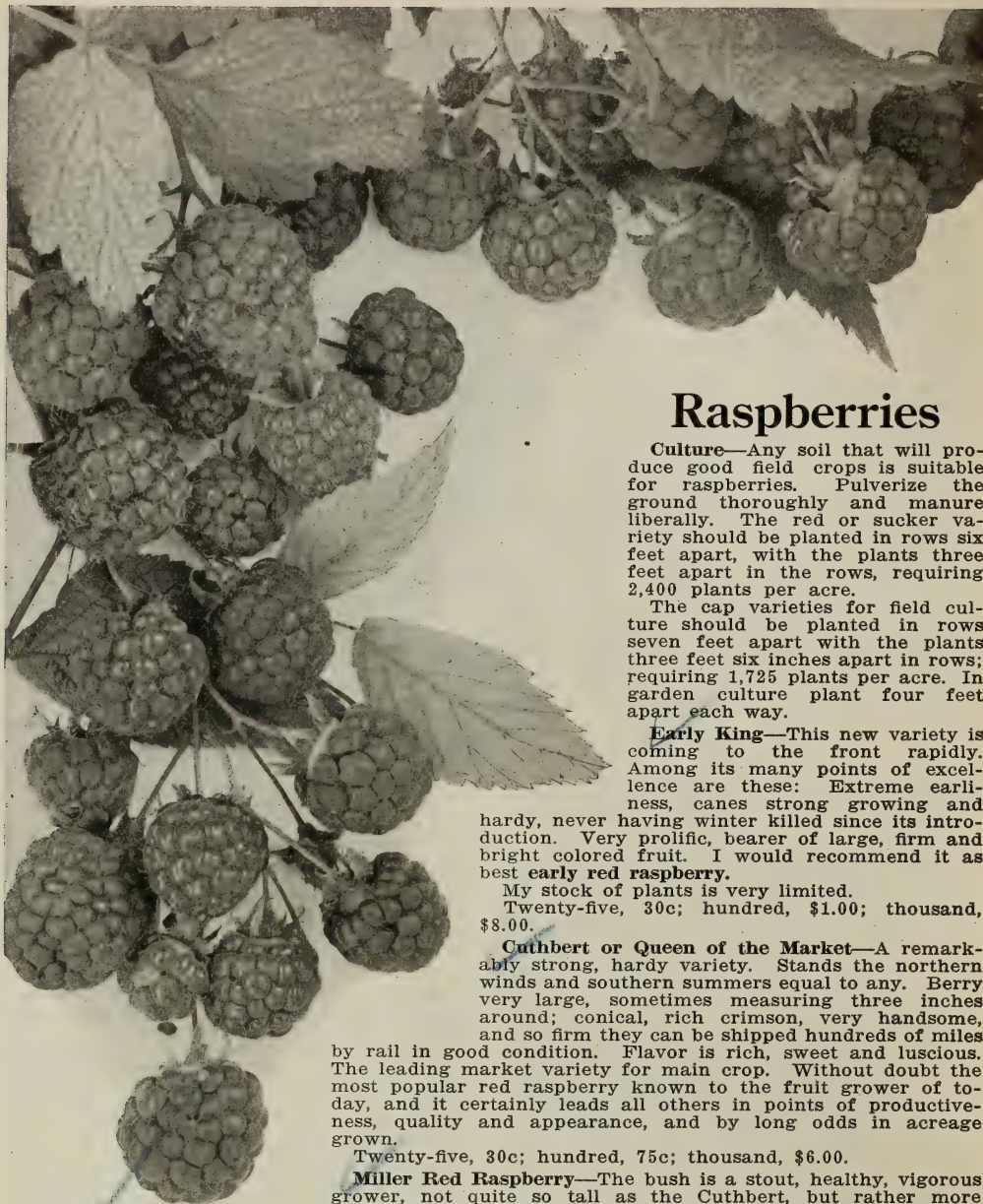
C. E. Whitten's Nurseries, Bridgman, Mich.

Dear Sir:—The Strawberry plants came through in good condition. Express charges less than I expected.

Yours truly,

GORDON P. MILLER.





Early King

## Raspberries

**Culture**—Any soil that will produce good field crops is suitable for raspberries. Pulverize the ground thoroughly and manure liberally. The red or sucker variety should be planted in rows six feet apart, with the plants three feet apart in the rows, requiring 2,400 plants per acre.

The cap varieties for field culture should be planted in rows seven feet apart with the plants three feet six inches apart in rows; requiring 1,725 plants per acre. In garden culture plant four feet apart each way.

**Early King**—This new variety is coming to the front rapidly. Among its many points of excellence are these: Extreme earliness, canes strong growing and hardy, never having winter killed since its introduction. Very prolific, bearer of large, firm and bright colored fruit. I would recommend it as best **early red raspberry**.

My stock of plants is very limited. Twenty-five, 30c; hundred, \$1.00; thousand, \$8.00.

**Cuthbert or Queen of the Market**—A remarkably strong, hardy variety. Stands the northern winds and southern summers equal to any. Berry very large, sometimes measuring three inches around; conical, rich crimson, very handsome, and so firm they can be shipped hundreds of miles by rail in good condition. Flavor is rich, sweet and luscious. The leading market variety for main crop. Without doubt the most popular red raspberry known to the fruit grower of today, and it certainly leads all others in points of productiveness, quality and appearance, and by long odds in acreage grown.

Twenty-five, 30c; hundred, 75c; thousand, \$6.00.

**Miller Red Raspberry**—The bush is a stout, healthy, vigorous grower, not quite so tall as the Cuthbert, but rather more stocky and dwarfish. It is well calculated to hold up the immense crops of fruit with which it loads itself. The introducer claims: Extreme hardiness, as productive as any; one of the earliest to ripen; an excellent shipper; of good quality and attractive color. Twenty-five, 25c; hundred, 75c; thousand, \$5.00.

**The Eaton**—“A new red raspberry and is entirely distinct from all other varieties. In character of growth, in size, color, firmness, quality and yield of fruit; in length of season, and in all strong points of merit it stands unequalled and alone. A variety that is at once perfectly healthy in root and foliage, and hardy, coming through our most severe winters in prime condition; a strong, ‘not tall and slender,’ but a sturdy grower, throwing out many laterals and fruiting to the tips and from every lateral, a sight to see. An immense cropper, far outyielding any red raspberry we have ever known, while the fruit is extraordinarily large and handsome, firm and of the highest quality.”

Above is the originator's description. I have fruited this variety several seasons, in a small way, and in the past have been somewhat disappointed in its behavior. Its worst failing being that it is apt to color before fully ripe, and will not leave the stem until it is fully ripened, causing trouble in picking until one becomes accustomed to this feature.

Twenty-five, 75c; hundred, \$2.00; thousand, \$15.00.



## Purple Cap

**Columbian**—The Columbian is a variety of the Shaffer type, of remarkable vigor and productiveness. It is hardy and propagates from tips. Fruit very large, often an inch in diameter, shape somewhat conical, color dark red, bordering on purple; adheres firmly to the stem and will dry on the bush if not picked; seeds small and deeply imbedded in a rich, juicy pulp with a distinct flavor of its own, making it a most delicious table berry.

In my estimation this is the most valuable purple cap yet produced, as it is more hardy in cane and certainly more prolific, and fruit of larger size than any other sort I am acquainted with.

Twenty-five, 50c; 100, \$1.75; 1,000, \$15.00.

**Haymaker**—"The Haymaker is a purple cap, not so dark as Columbian or Shaffer, and much larger and firmer than either of those varieties, never crumbles and stands up well for shipping. Sample crates have been shipped to distant points with entire satisfaction. It is a berry to grow for either home use or market. The originator has found it the **most profitable berry** ever raised for market, and has never yet been able to supply the local demand. So much of a favorite has the Haymaker become that local growers have said that it ruined the sale of other varieties. Very popular as a **canning berry**."

Twenty-five, 60c; hundred, \$2.00.

## Black or Cap Varieties

**Plum Farmer**—While this is not a brand new sort, having been grown in New York State for several years, it is not widely disseminated.

I am offering it this season for the first time, and will give the introducer's description:

"This grand blackcap raspberry was found by us in a lot of blackcap plants received from Ohio several years ago. We have fruited it and sold plants from it for nearly fifteen years, and in all this time, while we have tried numerous varieties, we never have seen anything that could near approach it in value. The plants are fine growers, being more free from diseases of blackcaps than other varieties; are clean silvery bluish in appearance when ripened in the fall, and when loaded in fruit are a sight to behold. It ripens very early and most of the fruit is produced in one week. It will outyield any blackcap we have ever seen. The fruit is very large, thick meat and very firm, making a good berry to evaporate or ship to distant markets."—L. J. Farmer.

Although I have never fruited this sort, I have confidence in its merits and would advise all wanting an early blackcap to give it a trial.

Above was last year's description and I can only add that our block of this variety set last spring, made a fine growth of healthy canes and promise well for a very heavy yield, as the canes have many laterals, thus insuring bearing wood.

Twenty-five, 40c; 100, \$1.50; 1,000, \$12.00.

**Munger**—"A seedling of Shaffer's Colossal. Late; larger than Gregg, of better quality, somewhat firmer, making it a better shipper, and a few days later in ripening. Color jet-black. Canes vigorous, very productive. The best and most profitable blackcap raspberry in cultivation."

Above is quoted. I am not ready, as yet, to say that any variety is the best ever.

I do think, however, that this is a good one, and that it has points that are superior.

Twenty-five, 35c; 100, \$1.00; 1,000, \$9.00.

**Gregg**—My experience is that Gregg is quite hardy on well drained soil, but does not love wet feet and winter kills badly on wet ground. The berries are covered with a whitish blue bloom, which in its first dissemination was mistaken for mould or mildew and hindered the sale of fruit on the market; but since becoming better known, this sort is very popular in all sections, and I do not hesitate to class it as the best late market sort.

Twenty-five, 35c; 100, \$1.00; 1,000, \$8.00.

**Kansas**—For a good second early blackcap, there is nothing better than this. It possesses all the valuable attributes of a profitable market sort, and its large size and attractive appearance insures for it always a ready sale and good prices. The fruit is nearly as large as

the Gregg, and with much less bloom, handsome, firm and of fine quality. Its canes are of strong growth; entirely hardy and prolific with tough, healthy, clean foliage. Its season is about second early—later than Souhegan, but much earlier than Gregg.

Twenty-five, 35c; 100, 85c; 1,000, \$7.00.

**Cumberland**—This has been named the "Business Blackcap" by the introducers, and has been loudly praised by all who have grown it. It is a very large berry of fine flavor, rich and sweet, and of jet black color with slight bloom. The cane is of extreme hardness, very strong growing and free from anthracnose.

It is a mid-season variety following the early sorts but ripening ahead of Gregg.

Without doubt this is the most popular Black Raspberry grown today. There being perhaps twice the acreage set to Cumberland in this locality of any other sort.

I do not mean to say that it has no failings, because I do not think we have reached "perfection" as yet in any one variety. The worst fault I find with Cumberland is that in a wet season it is apt to become water-soaked and of poor quality. It is the heaviest growing bush of any that I am acquainted with and stands up well with its immense loads of fruit. My friends will make no mistake in planting this for either home use or market.

Twenty-five, 30c; 100, \$1.00; 1,000, \$9.00.



Plum Farmer



## Blackberries

Should be planted in rows six or seven feet apart and three to five feet in the rows. Keep the ground light and rich. Pinch the canes back when they have reached the height of from two to three feet.

Our blackberry plants are mostly "sucker" plants, except where marked "Root Cutting." These "sucker" plants are dug from between fruiting rows, or where "root cutting" plants have been taken leaving the broken roots in the ground which have thrown up shoots, or suckers as we term them. When properly dug with cross roots these make first class plants, and prove about as satisfactory as, and at a much lower cost, than "root cuttings."

**Ward**—Undoubtedly a seedling of the Kittatinny, which it resembles, having all of its good qualities and none of its defects. Healthy, strong grower with sturdy canes producing fine large fruit, black throughout, without core, and of excellent quality. Has never suffered from winter injury in New Jersey. An exceedingly prolific sort, the bushes being covered with its fine fruit, producing as many bushels per acre as the Wilson in its prime.

This is a new variety that I have never listed before, although I have fruited it several seasons. I find that it proves quite hardy in bud and cane, withstanding our winters without protection.

To those who remember the old Kittatinny this will prove an acceptable variety as it is much like that sort in manner of growth and in quality of berry, while it is not troubled with "orange rust" which has practically destroyed the Kittatinny.

My stock of this sort is limited and I will offer while they last at following prices.

No. 1, root cutting plants: Twenty-five, 50c; hundred, \$1.75; thousand, \$15.00.

No. 1, suckers: Twenty-five, 40c; hundred, \$1.50; thousand, \$12.00.

**Eldorado**—In other years I have headed our list with Eldorado, but this time I am going to give it second place as I think Ward is fully as good a berry in every way, and much more productive.

However, I do not mean to infer that Eldorado is not a first-class variety. For years it has been a standard of excellence in all points, with us; superior quality, large size, hardness of bud and cane, sells well in market as it is jet-black and holds its color well, berry large and juicy without core, entire freedom from **Orange Rust** and a prolific bearer.

What more can we say? Try it for yourselves giving it a good strong soil, full of humus, prune and cultivate properly and my word for it, you will be pleased.

Our plants are No. 1 suckers:

Twenty-five, 40c; hundred, \$1.50; thousand, \$13.00.

**Early King**—An extra early blackberry, exceedingly hardy variety of great merit. Needs no winter protection, always producing large crops. Canes of a strong growth, as hardy as Snyder and very prolific. It is much larger than Early Harvest and its delicious sweetness renders it of special value for home use or market. It is also free from double bloom, and other disease, and will go through hard spring frost in blossoming time without injury. Those who have tried this variety are well pleased.

Twenty-five, 35c; hundred, \$1.25; thousand, \$10.00.

**Mersereau**—While this is not a new variety, strictly speaking it is new to me for I have never fruited it. I will clip this description from another catalog:

"Mersereau is an early mammoth variety, originating in Northwestern New York. Ironclad in hardness, having endured a temperature of twenty degrees below zero without injury, when Snyder was very much damaged; has a combination of the desirable qualities of a good blackberry; exceptionally sweet, rich and melting, nearly without core. Canes very strong; upright grower, attaining a height of seven to eight feet. The yield is simply enormous, affording heavy picking from the first until all the crop is matured."

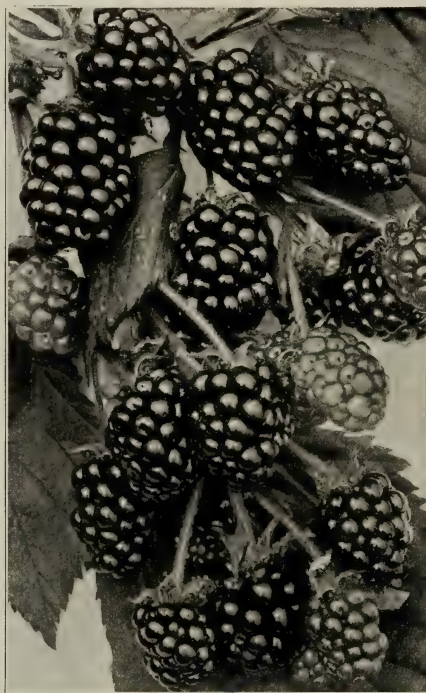
From what I have learned of this sort I feel that it certainly has great merit and I can furnish a few thousand very fine sucker plants.

Twenty-five, 50c; hundred, \$1.75; thousand, \$15.00.

**Wilson's Early** — Of good size, very early, beautiful dark color, of sweet excellent flavor and very productive. Ripens the whole crop nearly together.

This variety is tender in cane and in northern latitudes will have to have winter protection. This is not such a serious job as some

might think; if taken just before the leaves drop in fall and wood is still somewhat green, the canes in the hill can be gathered together and bent to the ground and tips covered with enough earth to hold them in this position. Always bend toward the prevailing winds as this will tend to hold the snow, if any. Commence at the far end of row and bend from you, but in line with the row, continuing this with each hill, letting top of one overlap the root of the previous one. Unless very dry, few canes will be broken by this bending. After all are bent down, cover rows with straw manure, or other litter, using enough to cover from sight; then, using a medium size turning plow with one horse, turn two furrows at each side of row, being careful not to plow deep enough to cut roots. This is usually sufficient, but it would be as well to go over the field with shovel covering any canes exposed. We do not cover to keep from



Ward.



freezing, but to prevent sun and wind drying out too much, thus evaporating the sap, or life fluid from canes. This is the cause of injury more than intense cold. In the south this variety is hardy enough to stand without

protection and is certainly one of the most profitable sorts for market. Our plants are No. 1 sucker Plants.

Twenty-five, 35c; hundred, 85c; thousand, \$7.00.

## Dewberries

There is great diversity in methods given for the cultivation of this fruit. Some say train to stakes or wires; others to let lie on ground and grow at will, while still others advise cutting off all the growth to the ground immediately after fruiting, then allowing the bush to form for the next season's crop. I have never tried this latter method, but the Lucretia is such a rampant grower (often running 12 to 15 feet) that I have no doubt it would make plenty of wood before the growing season ended. This would be the easiest way to grow, if successful, as it would be very little work to clean out a field after fruiting as compared with having to work amongst the new vines if they should be left from early spring. Of course, the ground would have to be kept cultivated well while this growth was being made, especially in dry location or season.

**Lucretia**—This is counted as the **standard** of all dewberries, is earlier than the earliest blackberry and as large as the largest of them. The canes are of great hardiness and exceedingly prolific, thriving everywhere, of slender trailing habit and entirely free from disease and insect attacks. The fruit is large and handsome, jet-black, rich and melting; ships well and keeps well. We picked these berries the past season with the raspberries, bringing \$2.00 to \$2.50 per sixteen-quart crate in Chicago market. I would advise my friends all to try at least a few of them in their gardens.

Twenty-five, 35c; hundred, \$1.00; thousand, \$8.00.

## Testimonials

C. E. Whitten.

Sandy, Utah, 4-29-'11.

Dear Sir:—The plants came to hand all O. K., and they were a nice looking lot. I have them out and they are growing nicely.

I hope to get some nice plants from them.

Many thanks.

Truly yours,

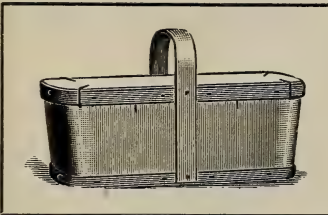
IRA A. E. LYONS.

Aledo, Ill., May 4, '11.

Mr. C. E. Whitten, Bridgman, Mich.

Dear Sir:—You shipped my plants April 21, they got here the 22nd. The finest plants I ever got from any nursery; have got them set out, they look fine. I can recommend you and your nursery to my friends.

A. J. EDDINGS.



## GOOD FRUIT is Worthy of a GOOD PACKAGE

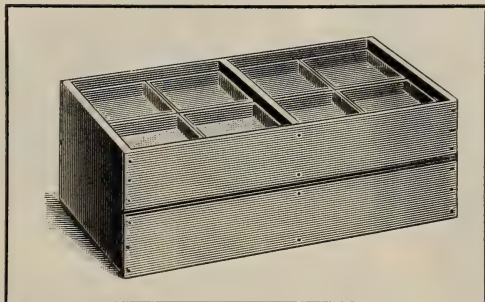
### We Make the Very Best

We carry both the **full quart and wine quart Berry Boxes**, and a complete line of **Shipping Baskets and Packages**.

**ORDER EARLY**  
either in the flat or made up

Catalog on request. Dept. "C"

**Wells-Higman Company**  
**St. Joseph, Michigan**





## Currants

A cool, moist location is best for this fruit, and for this reason succeeds admirably when planted by a stone wall or fence; being benefited by partial shade. Plant in rows four feet apart, and the plants three feet apart in the rows. Keep the ground mellow and free from weeds and grass, using fertilizer copiously. Mulching is necessary for the best returns.

**Perfection**—This new currant was originated by C. G. Hooker, of New York State, by crossing the Fay's Prolific with the White Grape Currant. It has the large size of the Fay, with the extra good quality and great productiveness of the White Grape. The color is beautiful bright red, and is less acid and of better quality than any other large currant in cultivation. Perfectly healthy, and a vigorous grower, and in fact the best currant for home use or market purposes under cultivation today. In July, 1901, it was awarded the \$50.00 Barry gold medal by the Western New York Horticultural Society after a trial of three years. It also received the highest award given any new fruit at the Pan-American Exposition, and it also received the only gold medal awarded to any currant at the St. Louis Exposition. It has also received a great many testimonials from the highest sources in this country. We show a natural size cluster of this fruit reproduced from a photograph taken at the New York Experiment Station. I think all who want a fancy fruit of this sort will do well to try a few. Two year plants.

Twelve, \$1.50; twenty-five, \$3.00; hundred, \$11.00.

**Wilder**—A remarkable variety, for which we predict great popularity, both for table and market. One of the strongest growers and most productive. Bunch and berries very large, bright attractive red color, even when dead ripe; hangs on bushes in fine condition for handling as late as any known variety. Compared with the celebrated Fays is equal in size, with longer bunch, better in quality, with much less acidity; ripens at same time, continues on bush much longer; fully as prolific, in some trials largely outyielding it. Recommended by our Experiment Station as the best red currant. Strong one year plants.

Dozen, 75c; hundred, \$4.00.

**London Market**—Of English origin. As compared with Victoria, it is larger, more productive, much stronger grower, less infested with borers, and retains its foliage until frost comes. It has produced twice the amount of fruit the Victoria did under the same conditions; a very strong and upright grower. Strong plants. Dozen, 75c; hundred, \$4.00.

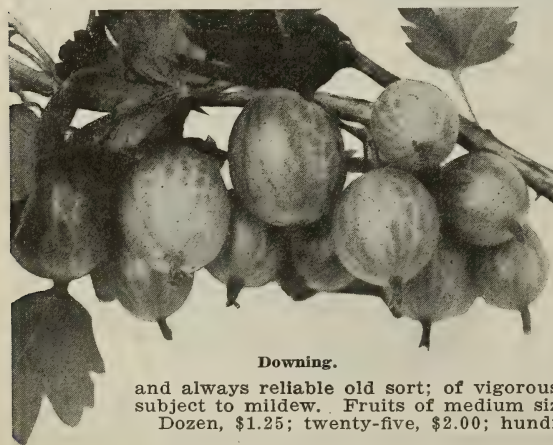
**Red Cross**—A new currant of merit. Clusters are large, sometimes measuring 5 to 6 inches in length; fruit is large and of good quality, a shade darker than Fay; mild, subacid for a red Currant. Plant vigorous and productive. Average larger than Fay or Cherry, and is sweeter than most other varieties. Doz., 75c; hundred, \$4.50.



Perfection.

## Gooseberries

The same soil and conditions best adapted to currants will be appropriate for gooseberry culture. The American varieties of gooseberries are among our hardiest plants. All of the standard sorts of the present day are cultivated forms of a native species natural to the upper Mississippi Valley, and in this region the cultivated sorts seem to reach their highest development. Clean culture should be given until the plants are well established, usually about the third year; after this they may be permanently mulched. As the best fruit is borne on the two and three year-old wood, a certain amount of pruning will be necessary to encourage a strong growth of canes and in the removal of the older wood after bearing.



Downing.

**Downing**—This is without doubt the best gooseberry for general cultivation that is offered today. It is an American or Native seedling, not at English sort. The latter are very hard to grow successfully in this climate on account of weak foliage which is very susceptible to mildew. When this disease attacks the gooseberry it causes the foliage to drop before the berries are fully grown and materially injures the crop. Downing is a yellowish green sort, and of good size, being a strong growing bush and a very prolific bearer. Plants of all varieties of gooseberries are in light supply and in very good demand, and the price is high.

Dozen, \$1.50; twenty-five, \$2.50; hundred, \$8.00.

**Houghton**—An enormously productive and always reliable old sort; of vigorous, yet rather slender, spreading growth, not subject to mildew. Fruits of medium size, smooth, pale red; tender and good.

Dozen, \$1.25; twenty-five, \$2.00; hundred, \$7.00.



## Grape Vines

The grape is one of the easiest fruits to grow and should be in all collections. When once well established, vines will continue in bearing a long time with very little care, other than the cutting back of the extra growth which should be done in winter or very early spring (before sap starts to circulate). This pruning is essential to the healthy growth of the vine and its fruitfulness. The grape is fast becoming a leading fruit in our section of Michigan, and there is no reason why it should not be grown in many other sections of our country. With such hardy varieties as Concord, Worden and Niagara, no one need be without at least a few for the home use, as the vines can be taken off the trellis for the winter, and if covered lightly with some kind of mulch will stand the extremes of our northern climate. Owing to the very heavy demand and a material shortage of stock for this season, the prices are somewhat higher than in recent years. My vines are all New York grown, and will be first class, and of grade represented.

**Niagara (White.)**—Vine hardy, an unusually strong grower; bunches very large and compact, sometimes shouldered; berries as large or larger than Concord; mostly round, light greenish white; semi-transparent, slightly amber in sun, skin thick, but tough, and does not crack; quality good; very little pulp, melting and sweet to the center.

First class one year plants: Dozen, 75c; hundred, \$4.00.

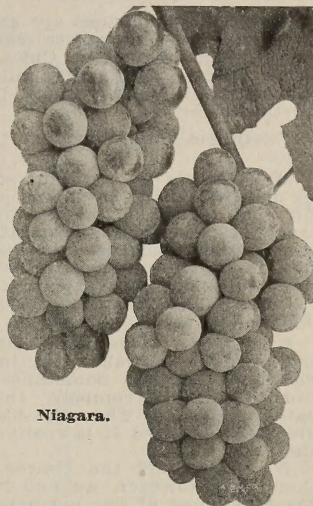
**Concord**—A large, purplish, black grape, ripening about the middle of September; vines remarkably vigorous and free from disease; the standard for productiveness and hardness all over the country. One year, No. 1: Dozen, 50c; hundred, \$2.50. Two year, No. 1: Dozen, 75c; hundred, \$4.00.

**Worden**—A splendid, large grape of the Concord type, but earlier, larger in bunch and berry, and of a decidedly better quality; vine harder than that old standby and every way as healthy. A very popular sort, planted largely for the market; next to Concord in number used.

Fine one year plants: Dozen, 60c; hundred, \$3.50. Two year old: Dozen, 85c; hundred, \$4.50.

**Moore's Early**—A black grape. Bunch large, berry round, quality better than the Concord; vine exceedingly hardy. Its earliness makes it desirable for an early crop, and more particularly adapts it for New England and the northern portion of the United States, maturing as it does ten days before the Hartford and twenty days before the Concord. No. 1, one year: Doz., 75c; hundred, \$4.00.

**Brighton (Red.)**—Perhaps the best red grape in cultivation. Bunch large and compact, a strong grower and very productive; quality good. Fine one year plants. Dozen 75c; hundred, 4.00.



Niagara.

## Asparagus Roots

When planting asparagus roots, set four to six inches deep, and about 12 inches apart in the row, covering with only three inches of soil at first, and filling in the trenches as the plants grow.

The asparagus bed is apt to be neglected in the early fall. Before the 1st of September the tops should be cut, and the bed or field cleared of weeds. It is highly important that all the seed should be taken off, as the greatest enemy the asparagus has in the way of weeds is asparagus, and it is almost impossible to get clear of superfluous plants, when once established. When this work is finished, cover the bed to the depth of three inches with coarse manure, which will not only enrich the soil, but it will keep out the frost, which is highly essential.

The first work in the spring should be to remove all the covering except the fine manure, which should be carefully forked in, so that the crowns will not be injured by the tines of the fork. Forking the beds should not be neglected, as the early admission of the sun and rain into the ground induces the plants to throw up shoots of superior size. Another step in the right direction is to keep the ground entirely free from weeds the entire season, as these take from the plants the strength required for their own growth and the asparagus needs it all.

**Palmetto**—A valuable new variety and is being planted very largely. It is nearly twice the size of Conover, fully as early, and as productive. The flavor is excellent. Hundred, 75c; thousand, \$4.00.

**Giant Argenteuil**—This variety is largely grown in France, but has become adapted to our soil and climate. Is noted for its earliness, productiveness and immense size of stalks. Remarkably healthy.

Hundred, 75c; thousand, \$4.00.

## Rhubarb or Pie Plant

This deserves to be ranked among the best early products of the garden. It affords the earliest material for fine pies and fresh table sauce, continues long in use, and is valuable for canning. Make the ground rich and deep, as recommended for asparagus. Plants four feet each way.

**Myatt's Linnaeus**—Those who have never grown this variety, which is of superior quality, will hardly recognize the old "Pie Plant." It is an early tender variety, without being in the least tough or stringy, with a mild, sub-acid flavor.

Good strong roots, 5c each; dozen, 50c; hundred, \$4.00.



# Instructions to Purchaser

**My Location**—I am located in southwestern Michigan, about fifteen miles south of St. Joseph, near Lake Michigan, in what is known as the "Great Fruit Belt."

**Railroad Connections** are good. Our line of road, the Pere Marquette, runs mail and express trains direct to Chicago; time about three hours. Within fifty miles this line connects with the great trunk lines, east, west, north and south.

**Telephone**—Long distance telephone in our office.

**Mail Orders**—I can ship strawberry plants by mail when so desired, and on small amounts for long distance this is much the cheaper transportation, but not so safe as express, as the mode of packing is of necessity different; not having the chance for ventilation, plants are more likely to heat enroute.

I much prefer express shipments, and must decline any large orders to be shipped by mail.

**By Express**—This is the safest way to ship live plants, as it makes fast time with the least liability of delay. Sometimes when transferred to another company the charges seem rather high, but when the nature of the service is considered it is really the cheapest in the end.

We have only the United States Express Company; however, we find little difficulty in reaching most of our customers by this company, and its connections.

All express companies now bill nursery stock at "General Special" rate, being a reduction of twenty per cent. from the merchandise rate, also making it a "Pound" rate with a minimum charge of thirty-five cents.

We can also get a low rate on long distance shipments of eight cents per pound, with a limit of ten dollars in valuation for each shipment. This is of considerable benefit to our customers west of the Rocky Mountains, where the rate is often ten or twelve dollars per hundred pounds.

**Freight**—Early in the season I can ship by freight with comparative safety, but there is a possibility of delay and consequent loss. Parties ordering stock shipped by freight will have to take the risk, as I cannot be responsible for loss, if any, on stock shipped in this manner.

I do not undertake to guarantee safe arrival by any of these modes of transportation, as I have no control of stock after it leaves my hands; however, it is to my interest, as well as the interest of my customers, to have stock reach the purchaser in good condition, and I shall always endeavor to so pack and forward goods that they may prove satisfactory.

**My Packing** is done in the best possible manner and under my personal care. I use light crates or baskets with plenty of moss for packing strawberry plants, and barrels and boxes for other sorts, making no charge for the work or package. My long experience in this line gives me a decided advantage in the matter of **safe packing**. I also have experienced help who have worked with me several years. Of course, we do not claim infallibility, and are always ready to make reparation where at fault.

Shipping season begins about April 1st, or possibly last week in March, and continues until about 1st to 10th of May.

**Terms**—One-fourth cash with order, balance before stock is shipped. Or I will ship C. O. D. if one-half of the amount accompanies the order and purchaser will agree to pay return charges on the money.

**Remittances** may be made either by New York or Chicago draft, postoffice or express order, or where none of these may be had, by registered letter.

**Rates**—Fifty plants of one variety at hundred rates; or three hundred plants of one variety at thousand rates. When an order amounts to \$10.00 or over, it may be counted at the thousand rate, regardless of number taken. No order booked for less than \$1.00.

**My Prices** are as a general thing very low, but on large lists we are sometimes able to give better rates and invite all wanting large lots to write for estimates.

By large lots I mean a quantity; ten to twenty thousand and up.

Do not write for special prices on two or three thousand.

**Order Blanks**—Use the order blank enclosed when ordering, being careful to write your name plainly, giving Postoffice, County and State, and do this every time you write. Also keep a copy of your order yourself. Be particular to say how goods are to be sent, whether by mail, express or freight.

All orders are acknowledged immediately upon receipt. If you do not receive an acknowledgement in a reasonable time, write again.

**When to Order**—Early, by all means. The rule generally is, "First come, first served," also the early orders find full stock, while later some varieties are liable to be exhausted. Orders are filled in rotation as received, except sometimes our southern patrons are ready to set in advance of those further north; these orders we usually crowd first, and get them out as soon as frost is out of the ground in spring.

Our customers will please remember that the time for filling orders is short, and it would facilitate our work greatly if orders were sent before the rush. This is also an advantage to our customers, for they get what they order, no varieties being sold out. To encourage these early orders I will make this offer:

**Premium Offer**—On all orders at catalog rates received during January and February with cash in full, I will allow a cash discount of 5 per cent., or for every dollar sent during these months you may order additional stock to the amount of ten cents. (See inside front cover of this catalog for other premium offers.)

**Substitution**—In ordering, please state whether I shall substitute some other variety in case the kind ordered should be exhausted. If not forbidden I claim the right to substitute something of equal value, but always label true to name. I always aim to substitute sort similar in quality and season and always something listed at equal or higher rate.

**Guarantee and Condition of Sale**—While I take great pains to have stock true to name and hold myself ready upon proper proof to refund money or replace any that proves untrue, it is mutually agreed that I shall not be liable for a greater sum than the amounts paid for such stock.

Every order received for articles named in this catalog will be received and executed on the above conditions only, and with the distinct understanding and agreement on the part of the purchaser that I shall in no case be liable for a greater amount than the sum originally paid to me for the stock in question.

**References**—I refer to the United States Express Agent or Postmaster at Bridgman; Union Banking Company, St. Joseph; or Bradstreet's Commercial Reports, as to my standing and reliability. Parties writing any one of the above, please enclose stamp for reply.



# PRICE LIST FOR 1912

## Strawberry Plants

If by mail, add 10c per 25, or 25c per 100 for postage.  
At thousand rates by freight or express only. Fifty of one variety at hundred, or 300 of one variety at thousand rates.

Variety.	25	100	1000	5000
Aroma, (Per.)	\$0.20	\$0.60	\$4.00	\$17.50
Blaine, (Per.)	.20	.60	4.00	
Bubach, (Imp.)	.20	.60	4.00	
Beder Wood, (Per.)	.15	.50	2.50	10.00
Brandywine, (Per.)	.20	.60	3.50	15.00
Chesapeake, (Per.)	.25	.75	5.00	
Excelsior, (Per.)	.15	.50	3.00	
Fendall, (Imp.)	.20	.60	4.00	
Glen Mary, (Per.)	.20	.60	4.00	17.50
Gandy, (Per.)	.25	.75		
Gibson, (Per.)	.20	.60	4.00	18.00
Highland, (Imp.)	.25	.75	5.00	
Haverland, (Imp.)	.20	.60	4.00	17.50
Heritage, (Per.)	.20	.60	4.00	
Klondike, (Per.)	.15	.50	3.00	
Luther, (Per.)	.15	.50	3.00	12.50
Lovett, (Per.)	.15	.50	3.00	
Marshall, (Per.)	.25	.75	5.00	
Norwood, (Per.)	.50	1.25	10.00	
Pocomoke, (Per.)	.20	.60	4.00	17.50
Red Bird, (Imp.)	.15	.50	3.00	
Ryckman, (Per.)	.20	.60	4.00	
Senator Dunlap, (Per.)	.15	.50	2.50	10.00
Splendid, (Per.)	.15	.50	3.00	
Sample, (Imp.)	.20	.60	4.00	17.50
Stevens' Late, (Per.)	.20	.60	3.50	15.00
Son's Prolific, (Per.)	.25	.75	5.00	
Uncle Sam, (Per.)	.20	.60	3.50	15.00
Wm. Belt, (Per.)	.20	.60	3.50	15.00
Warfield, (Imp.)	.15	.50	2.50	10.00

## Raspberry Plants

By express or freight only; charges not paid.

Variety.	25	100	1000
Cuthbert, Red	\$0.25	\$0.75	\$ 6.00
Early King, Red	.30	1.00	8.00
Eaton, Red, New	.75	2.00	15.00
Miller, Red	.25	.75	5.00
Columbian, Purple	.50	1.75	15.00
Cardinal, Purple	.60	2.00	
Haymaker, Purple	.60	2.00	
Cumberland, Black	.30	1.00	9.00
Gregg, Black	.30	1.00	8.00
Kansas, Black	.30	.85	7.00
Hoosier, Black	.30	1.00	9.00
Munger, Black	.30	1.00	8.00
Plum Farmer, Black	.40	1.50	12.00
Conrath, Black	.30	1.00	8.00

## Blackberry Plants

Variety.	25	100	1000
Eldorado	.40	1.50	13.00
Early King	.35	1.25	10.00
Wilson's Early	.30	.85	7.00
Ward	.50	1.75	15.00
Mersereau	.60	1.75	15.00

## Currants

Variety	12	100
Perfection	\$1.50	\$11.00
Wilder	.75	4.00
London Market	.75	4.00
Red Cross	.75	4.50

## Gooseberries

Variety.	12	25	100
Downing	\$1.50	\$2.50	\$ 8.00
Houghton	1.00	2.00	7.00

## Grape Vines

Variety.	12	100
Niagara	\$0.60	\$ 4.00
Concord, 1 yr.	.50	2.50
Concord, 2 yr.	.75	4.00
Worden, 1 yr.	.60	3.50
Worden, 2 yr.	.85	4.50
Moore's Early, 1 yr.	.75	4.00
Brighton, 1 yr.	1.00	4.00



"STRAWBERRY PLANTS  
THAT GROW"



C. E. WHITTEN'S NURSERIES

CATALOGUE  
FREE

BRIDGMAN, MICHIGAN.